

Title (en)
Vapor hydration of a hydrophilic catheter in a package

Title (de)
Dampfhydration eines hydrophilen Katheters in einer Verpackung

Title (fr)
Hydratation par vapeur d'un cathéter hydrophile dans un emballage

Publication
EP 2423126 B1 20160330 (EN)

Application
EP 11175016 A 20040806

Priority

- US 49349303 P 20030808
- EP 04780281 A 20040806
- US 2004025417 W 20040806

Abstract (en)
[origin: WO2005014055A2] A vapor hydrated packaged catheter assembly (10) and method of manufacturing and distributing the same includes a gas impermeable package (12) housing a catheter (14) within a cavity (12a). The catheter assembly has a hydrophilic coating applied to at least a portion of the outer surface of the catheter. The catheter assembly is disposed within the capacity together with a limited amount of a vapor donating liquid (24) provided to activate the hydrophilic coating. The activation of at least some of the hydrophilic coating occurs solely by reason of exposure of the catheter to a vapor produced by the vapor donating liquid.

IPC 8 full level
B65D 85/08 (2006.01); **A61M 25/00** (2006.01); **A61M 25/01** (2006.01); **A61M 25/06** (2006.01)

IPC 8 main group level
A61L (2006.01)

CPC (source: EP US)
A61M 25/0009 (2013.01 - EP US); **A61M 25/0017** (2013.01 - EP US); **A61M 25/002** (2013.01 - EP US); **A61M 25/0111** (2013.01 - EP US); **B65B 5/04** (2013.01 - US); **B65B 7/02** (2013.01 - US); **B65B 55/22** (2013.01 - US); **B65D 81/22** (2013.01 - US); **A61M 25/007** (2013.01 - EP US); **A61M 2025/0046** (2013.01 - EP US); **A61M 2025/0681** (2013.01 - EP US)

Citation (opposition)
Opponent : Coloplast A/S

- JP 2001139059 A 20010522 - TERUMO CORP
- WO 9819729 A1 19980514 - COLOPLAST AS [DK], et al
- WO 9811932 A1 19980326 - COLOPLAST AS [DK], et al
- WO 9841116 A1 19980924 - YEAGER JAMES WORTH [US], et al
- EP 0348840 A2 19900103 - KIMBERLY CLARK CO [US]
- US 6090075 A 20000718 - HOUSE JAMIE GLEN [US]
- US 3854483 A 19741217 - POWERS J
- JOSEPH D.O'BRIEN: "Medical Device Handbook", 1990, MARCEL DEKKER, INC., pages: 2pp, 86-90, 118-122, 139 - 140, XP055336941
- DAVID EAVES: "Handbook of Polymer Foams", 2004, RAPRA TECHNOLOGY LIMITED, ISBN: 978-1-85957-388-4, pages: 2pp, 3 - 5, XP055336948
- K. SIVERTSEN: "Polymeric foams", 3063 POLYMER PHYSICS, 2007, XP055336972, Retrieved from the Internet <URL:http://core.qzu.edu.cn/NR/rdonlyres/BC5A6FD8-4841-4031-8795-5153AA5E3DAF/0/polymer_foams.pdf>
- ANONYMOUS: "Foam- Wikipedia, the free encyclopedia", 2016, XP055336961

Cited by
US11771584B2; US10092728B2; US10758704B2; US9707375B2; US10569051B2; US11607524B2; US9872969B2; US10780244B2; US11547599B2; US11730919B2; US10857324B2; US10874825B2; US11167107B2; US11497886B2; US11969558B2; US11998705B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005014055 A2 20050217; WO 2005014055 A3 20050324; AT E549056 T1 20120315; AU 2004263129 A1 20050217; AU 2004263129 B2 20100916; DE 11175010 T1 20160602; DE 11175017 T1 20160602; DE 202004021966 U1 20131008; DK 1606196 T3 20120702; DK 1606196 T4 20160404; DK 201300115 U1 20130809; DK 201300115 U3 20130913; DK 2423125 T1 20160404; DK 2423125 T3 20190423; DK 2423126 T3 20160606; DK 2423126 T4 20190423; DK 2423127 T1 20160404; DK 2423127 T3 20180730; DK 2423127 T4 20240325; DK 3210909 T3 20201012; DK 3392167 T3 20201109; EP 1606196 A2 20051221; EP 1606196 A4 20090325; EP 1606196 B1 20120314; EP 1606196 B2 20160120; EP 2423125 A1 20120229; EP 2423125 B1 20190403; EP 2423126 A1 20120229; EP 2423126 B1 20160330; EP 2423126 B2 20190327; EP 2423127 A1 20120229; EP 2423127 B1 20180516; EP 2423127 B2 20240214; EP 3210909 A1 20170830; EP 3210909 B1 20201007; EP 3392167 A1 20181024; EP 3392167 B1 20201014; EP 3875401 A1 20210908; EP 3875401 A3 20211201; ES 2384172 T3 20120702; ES 2384172 T5 20160429; ES 2578509 T3 20160727; ES 2578509 T5 20191119; ES 2683748 T3 20180927; ES 2738111 T3 20200120; ES 2824624 T3 20210512; ES 2830430 T3 20210603; HU E028572 T2 20161228; HU E046203 T2 20200228; HU E051305 T2 20210301; HU E053032 T2 20210628; HU E11175010 T1 20161228; JP 2007501656 A 20070201; JP 2010279717 A 20101216; JP 4682135 B2 20110511; JP 5005075 B2 20120822; TR 201808596 T4 20180723; US 2006163097 A1 20060727; US 2008179208 A1 20080731; US 2010155268 A1 20100624; US 2011284409 A1 20111124; US 2012228165 A1 20120913; US 2014216955 A1 20140807; US 2015283355 A1 20151008; US 7380658 B2 20080603; US 7886907 B2 20110215; US 8011505 B2 20110906; US 8205745 B2 20120626; US 8720685 B2 20140513; US 9072862 B2 20150707; US RE47513 E 20190716; US RE48426 E 20210209

DOCDB simple family (application)
US 2004025417 W 20040806; AT 04780281 T 20040806; AU 2004263129 A 20040806; DE 11175010 T 20040806; DE 11175017 T 20040806; DE 202004021966 U 20040806; DK 04780281 T 20040806; DK 11175010 T 20040806; DK 11175016 T 20040806; DK 11175017 T 20040806; DK 17150789 T 20040806; DK 17205430 T 20040806; DK BA201300115 U 20130730; EP 04780281 A 20040806; EP 11175010 A 20040806; EP 11175016 A 20040806; EP 11175017 A 20040806; EP 17150789 A 20040806; EP 17205430 A 20040806; EP 20201165 A 20040806; ES 04780281 T 20040806; ES 11175010 T 20040806; ES 11175016 T 20040806; ES 11175017 T 20040806; ES 17150789 T 20040806; ES 17205430 T 20040806; HU E11175010 A 20040806; HU E11175016 A 20040806; HU E17150789 A 20040806; HU E17205430 A 20040806;

JP 2006522746 A 20040806; JP 2010167138 A 20100726; TR 201808596 T 20040806; US 201113196382 A 20110802;
US 201213480669 A 20120525; US 201414249568 A 20140410; US 201514742998 A 20150618; US 201715438220 A 20170221;
US 201916421115 A 20190523; US 54014805 A 20051205; US 71587910 A 20100302; US 9804608 A 20080404